

# **FREMONT ENVIRONMENTAL INC.**

January 18, 2023

Mr. Jacob Evans  
Civitas Resources Inc.  
650 Southgate Drive  
Windsor, CO 80550

Subject:       **Pit Closure Data Submittal**  
                  Miller 14-17  
                  SWSW Sec. 17, T2N, R67W  
                  Weld County, Colorado  
                  Fremont No. C022-147  
                  Facility #103309, Remediation #25330

Dear Mr. Evans:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted a site investigation for the former Miller 1 Tank Battery pit. Attached are the results of the pit investigation. Impacts exceeding the COGCC Table 915-1 organic standards were not observed; however elevated concentrations of pH and SAR were observed below the root zone at 19 feet below ground surface. Groundwater was not encountered.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Paul V. Henahan, P.E.  
Senior Consultant

Attachments:

- Tables
- Figures
- Boring Log
- Laboratory Report

TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
CIVITAS RESOURCES, INC.  
MILLER 14-17, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-147

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
SS01@19.0'	10/27/2022	19	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

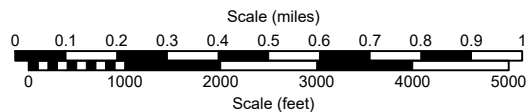
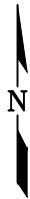
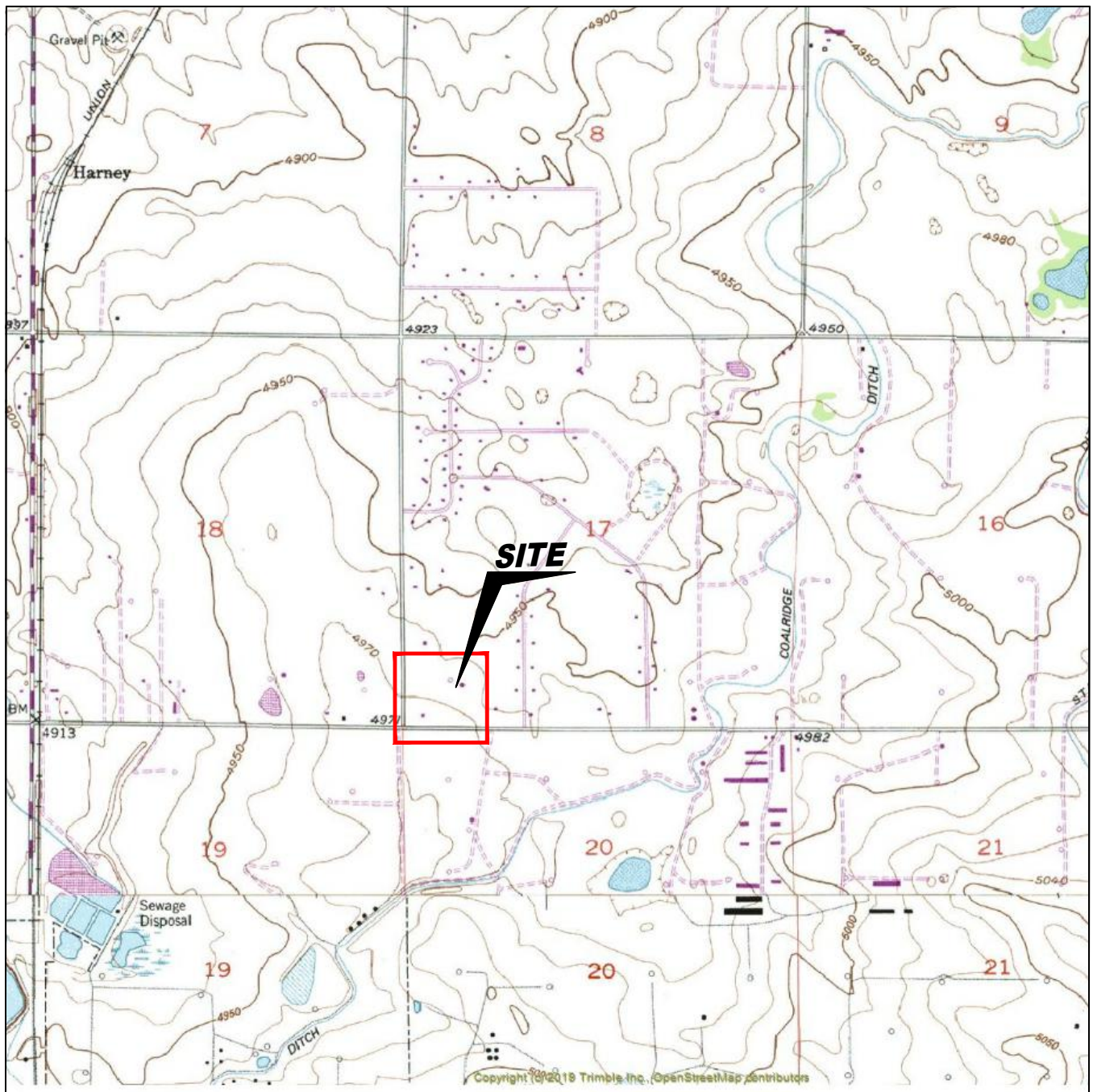
\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

**TABLE 2**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**CIVITAS RESOURCES, INC.**  
**MILLER 14-17, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-147**

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Site Specific Background Concentration/Value						
SS01@19.0'	10/27/2022	19	<b>8.41</b>	1.46	<b>28.8</b>	NA

Bold faced values exceed the COGCC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**CIVITAS RESOURCES ~ MILLER 14-17**  
SWSW Sec. 17, T2N, R67W, 6th PM  
Weld County, Colorado  
40.133080°, -104.921035°

Project # <b>C022-147</b>	API #	Facility # <b>103309</b>
Date <b>1/18/2023</b>	Remediation # <b>25330</b>	Filename <b>22147T</b>







# LEGEND

● SOIL BORING	○ ABOVE GROUND STORAGE TANK	■ BUILDING	■ BUILDING	— FENCE LINE	— CONTAINMENT BERM	— CONTAINMENT WALL
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Figure 2  
SITE MAP

**CIVITAS RESOURCES ~ MILLER 14-17**  
 SWSW Sec. 17, T2N, R67W, 6th PM  
 Weld County, Colorado  
 40.133080°, -104.921035°

Project No. <b>C022-147</b>	API #	Facility # <b>103309</b>
Date <b>1/18/2023</b>	Remediation # <b>25330</b>	Filename <b>22147Q</b>





#### LEGEND



10/27/2022	DATE SAMPLED
SS01 (19.0')	SAMPLE ID & DEPTH (ft)
B	BENZENE (mg/kg)
T	TOLUENE (mg/kg)
E	ETHYLBENZENE (mg/kg)
X	TOTAL XYLENES (mg/kg)
1,2,4-TB	1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TB	1,3,5-TRIMETHYLBENZENE (mg/kg)
N	NAPHTHALENE (mg/kg)
G	TPH-GRO (mg/kg)
D	TPH-DRO (mg/kg)
O	TPH-ORO (mg/kg)

NA NOT ANALYZED

10/27/2022	DATE SAMPLED
SS01 (19.0')	SAMPLE ID & DEPTH (ft)
SAR	SAR (units)
pH	pH (pH units)
EC	EC (mmhos/cm)
B	BORON (mg/L)

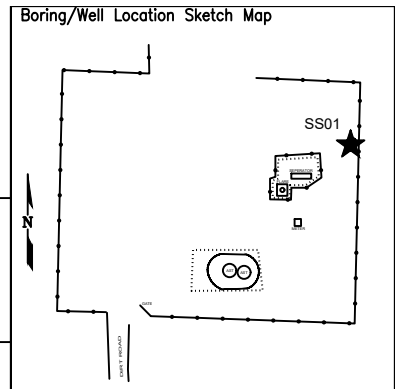
Figure 3  
SOIL CHEMISTRY MAP

**CIVITAS RESOURCES ~ MILLER 14-17**  
SWSW Sec. 17, T2N, R67W, 6th PM  
Weld County, Colorado  
40.133080°, -104.921035°

Project No. <b>C022-147</b>	API #	Facility # <b>103309</b>	
Date <b>1/18/2023</b>	Remediation # <b>25330</b>	Filename <b>22147Q</b>	



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. <b>SB-1</b>	Total Depth <b>20'</b>	Location <b>Civitas Resources Miller 14-17 SWSW Sec. 17, T2N, R67W, 6th PM Weld County, Colorado</b>	
Project No./Name <b>C022-147 Civitas Miller 14-17</b>		Approved By	
Drilling Contractor/Driller <b>Drill Pro</b>			
Geologist/Office <b>Jeff Griggs Fremont Environmental, Inc.</b>			
Drilling Equipment/Method <b>Direct Push</b>		Size/Type of Bit <b>2.25"</b>	Sampling Method <b>direct push</b>
		Start/Finish Date <b>10/27/2022</b>	
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Mtrl./Dia. .	Screen: Type . Mtrl. . Length . Dia. . Slot Size .	
Elevation of: (ft. above datum)	Ground Surface .	Top of Well Casing .	Top of Screen . Bottom of Screen . Ground Water Surface/Date Measured .

DEPTH (feet)	WELL CONSTRUCTION				LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
					GRAPHIC LOG	VISUAL DESCRIPTION				
5					SP	Brown, Fine-Med, loose, Sand				0.0
										0.0
										0.0
								85'		0.0
										0.0
										0.0
10					ML	brown, fine, compact, sandy silt				0.0
										0.0
										0.0
								98'		0.0
										0.0
										0.0
15					ML-CL	brown, fine, slight plasticity, sand silt with some clay				0.0
										0.0
										0.0
								98'		0.0
										0.0
										10.0
20					ML	grey/black, fine, compact, sandy silt				4.3
						TD - 20'		100'		

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 07, 2022

Paul Henchan  
Civitas Resources  
650 Southgate Drive  
Windsor, CO 80550

RE: Miller 14-17

Work Order #2210526

Enclosed are the results of analyses for samples received by Summit Scientific on 10/27/22 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell". The signature is fluid and cursive, written on a light gray background.

Mikayla Axtell For Paul Shrewsbury  
President





Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@19.0'	2210526-01	Soil	10/27/22 00:00	10/27/22 15:35

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

2210526

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com jeffg@fremontenv.com

City/State/Zip:

Ethanb@fremontenv.com

Phone:

Project Name: Miller 14-17

Sampler Name: JG

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMDS (915)	GRD, DRD, ORD	EC, PH, SAR					
1	S301 @ 19.0'	10/27/22		2			X			X			X	X	X	X					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/27/22 1535</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10.27.22 1535</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/>	Notes: <u>Client &amp; Civitas</u>  <u>Bill to Jacob</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Temperature Upon Receipt: <u>14.8</u>	Corrected Temperature <u>1</u>	HNO3 lot # <u>1</u>			
IR gun correction: <u>1</u>	IR gun #: <u>2</u>				

S<sub>2</sub>

2210526

## Sample Receipt Checklist

S2 Work Order#

Client: Fremont Client Project ID: Miller 14-17

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

X				
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Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

14.8

Thermometer #

2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact? <sup>(1)</sup>			<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?			<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>			
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AT  
Custodian Printed Name

10.27.22  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

**SS01@19.0'**  
**2210526-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0053	11/02/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0054	"	11/03/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		66.1 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

**SS01@19.0'**  
**2210526-01 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	9.94	0.0625	mg/L dry	1	BFJ0819	10/28/22	10/31/22	EPA 6020B	
Magnesium	3.23	0.0625	"	"	"	"	"	"	
Sodium	409	0.0625	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	28.8	0.00100	units	1	BFK0013	11/01/22	11/01/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.0		%	1	BFJ0796	10/28/22	10/28/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.46	0.0100	mmhos/cm	1	BFJ0828	10/28/22	10/31/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BFJ0829	10/28/22	10/31/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0053 - EPA 5030 Soil MS

##### Blank (BFK0053-BLK1)

Prepared & Analyzed: 11/02/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0349		"	0.0400		87.3	50-150			
Surrogate: Toluene-d8	0.0445		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

##### LCS (BFK0053-BS1)

Prepared & Analyzed: 11/02/22

Benzene	0.0721	0.0020	mg/kg	0.100		72.1	70-130			
Toluene	0.0707	0.0050	"	0.100		70.7	70-130			
Ethylbenzene	0.0728	0.0050	"	0.100		72.8	70-130			
m,p-Xylene	0.147	0.010	"	0.200		73.5	70-130			
o-Xylene	0.0760	0.0050	"	0.100		76.0	70-130			
1,2,4-Trimethylbenzene	0.0822	0.0050	"	0.100		82.2	70-130			
1,3,5-Trimethylbenzene	0.0824	0.0050	"	0.100		82.4	70-130			
Naphthalene	0.112	0.0038	"	0.100		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0342		"	0.0400		85.4	50-150			
Surrogate: Toluene-d8	0.0445		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

##### Matrix Spike (BFK0053-MS1)

Source: 2210530-01

Prepared & Analyzed: 11/02/22

Benzene	0.0711	0.0020	mg/kg	0.100	ND	71.1	70-130			
Toluene	0.0733	0.0050	"	0.100	ND	73.3	70-130			
Ethylbenzene	0.0736	0.0050	"	0.100	ND	73.6	70-130			
m,p-Xylene	0.170	0.010	"	0.200	ND	84.8	70-130			
o-Xylene	0.0751	0.0050	"	0.100	ND	75.1	70-130			
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
Naphthalene	0.116	0.0038	"	0.100	ND	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.1	50-150			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0053 - EPA 5030 Soil MS**

Matrix Spike Dup (BFK0053-MSD1)		Source: 2210530-01			Prepared & Analyzed: 11/02/22					
Benzene	0.0736	0.0020	mg/kg	0.100	ND	73.6	70-130	3.48	30	
Toluene	0.0781	0.0050	"	0.100	ND	78.1	70-130	6.30	30	
Ethylbenzene	0.0759	0.0050	"	0.100	ND	75.9	70-130	3.05	30	
m,p-Xylene	0.185	0.010	"	0.200	ND	92.5	70-130	8.65	30	
o-Xylene	0.0745	0.0050	"	0.100	ND	74.5	70-130	0.762	30	
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	4.26	30	
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	7.83	30	
Naphthalene	0.106	0.0038	"	0.100	ND	106	70-130	9.08	30	
Surrogate: 1,2-Dichloroethane-d4		0.0378	"	0.0400		94.4	50-150			
Surrogate: Toluene-d8		0.0442	"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene		0.0437	"	0.0400		109	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0054 - EPA 3550A**

**Blank (BFK0054-BLK1)**

Prepared & Analyzed: 11/02/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.4		"	12.5		108	30-150			

**LCS (BFK0054-BS1)**

Prepared & Analyzed: 11/02/22

C10-C28 (DRO)	457	50	mg/kg	500		91.5	70-130			
Surrogate: o-Terphenyl	12.4		"	12.5		99.0	30-150			

**Matrix Spike (BFK0054-MS1)**

Source: 2210516-01

Prepared & Analyzed: 11/02/22

C10-C28 (DRO)	483	50	mg/kg	500	44.4	87.7	70-130			
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

**Matrix Spike Dup (BFK0054-MSD1)**

Source: 2210516-01

Prepared & Analyzed: 11/02/22

C10-C28 (DRO)	429	50	mg/kg	500	44.4	76.9	70-130	11.9	20	
Surrogate: o-Terphenyl	12.3		"	12.5		98.7	30-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BFJ0819 - General Preparation**

**Blank (BFJ0819-BLK1)**

Prepared: 10/28/22 Analyzed: 10/31/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0819-BS1)**

Prepared: 10/28/22 Analyzed: 10/31/22

Calcium	4.09	0.0500	mg/L wet	5.00	81.8	70-130
Magnesium	5.40	0.0500	"	5.00	108	70-130
Sodium	6.03	0.0500	"	5.00	121	70-130

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0796 - General Preparation**

**Duplicate (BFJ0796-DUP1)**

**Source: 2210448-08**

Prepared & Analyzed: 10/28/22

% Solids	88.2	%		88.1		0.101	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0828 - General Preparation**

**Blank (BFJ0828-BLK1)**

Prepared: 10/28/22 Analyzed: 10/31/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0828-BS1)**

Prepared: 10/28/22 Analyzed: 10/31/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFJ0828-DUP1)**

**Source: 2210516-01**

Prepared: 10/28/22 Analyzed: 10/31/22

Specific Conductance (EC) 1.12 0.0100 mmhos/cm 1.12 0.715 20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0829 - General Preparation**

**LCS (BFJ0829-BS1)**

Prepared: 10/28/22 Analyzed: 10/31/22

pH	9.17	pH Units	9.18	99.9	95-105
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**Duplicate (BFJ0829-DUP1)**

**Source: 2210285-03**

Prepared: 10/28/22 Analyzed: 10/31/22

pH	7.88	pH Units	7.86	0.254	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 14-17

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:01

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference